

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2005/000042

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b>  |   |  |
|---|---|--|
| Int. Cl. <sup>7</sup> : C04B 41/45; C08K 3/34, 5/54, 5/541; C09D 183/04, 183/02, 185/00   |   |  |
| According to International Patent Classification (IPC) or to both national classification and IPC   |   |  |
| <b>B. FIELDS SEARCHED</b>   |   |  |
| Minimum documentation searched (classification system followed by classification symbols)<br>C04B 41/45; C08K 3/34, 5/54, 5/541; C09D 7/12, 183/04, 183/02, 185/00; C23C 26/00; B28B 11/00 - 11/24, 21/00 - 21/98, 19/00; E04F 21/00; D06M  |   |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched   |   |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>WPAT; JAPIO; USPTO; Espace@net; Keywords - nanoparticl+, microparticl+, hydrophob+, repel+, coat+, microstructur+, silan+, siloxan+, polysiloxan+   |   |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>   |   |  |
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.  |
| X   | Derwent Abstract Accession No. 2003-756616/71, Class A82 F06 G02, WO 2003/066241, (CREAVIS GES TECHNOLOGIE & INNOVATION MBH), 14 August 2003 & WO 2003/066241<br>See Abstract | 1-24   |
| X   | Derwent Abstract Accession No. 2003-533524/51, Class A84 E19 F01, DE 10118348, (CREAVIS GES TECHNOLOGIE & INNOVATION MBH), 17 October 2002 & DE 10118348<br>See Abstract      | 1-24   |
| X   | WO 2002/049980 A (FERRO GMBH [DE]), 27 June 2002, & US 6800354 B2<br>Whole document   | 1-24   |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex   |   |  |
| <p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>"&amp;" document member of the same patent family</p> |   |  |
| Date of the actual completion of the international search<br>22 February 2005   |   | Date of mailing of the international search report<br>02 MAR 2005        |
| Name and mailing address of the ISA/AU<br>AUSTRALIAN PATENT OFFICE<br>PO BOX 200, WODEN ACT 2606, AUSTRALIA<br>E-mail address: pct@ipaaustralia.gov.au<br>Facsimile No. (02) 6285 3929  |   | Authorized officer<br><br>WARREN TAYLOR<br>Telephone No : (02) 6283 2229 |

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2005/000042.

| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |  |                       |
|---|--|-----------------------|
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| X   | WO 2001/014497 A (UNISEARCH LTD et al [AU]), 1 March 2001,<br>& US 6743467 B1<br>Whole document  | 1-24                  |
| X   | US 6287639 B1 (SCHMIDT et al), 11 September 2001<br>Whole document   | 1-15, 22-24           |
| X   | Derwent Abstract Accession No. 2002-539476/58, Class A82 G02,<br>DE 10051182 A, (NANO X GMBH), 2 May 2002<br>& DE 10051182 A<br>See Abstract | 1-24                  |
| X   | Patent Abstracts of Japan<br>JP 2003-155411 A (SHINETSU CHEM IND Co Ltd), 30 May 2003<br>See abstract & JP 2003-155411 (whole document)      | 1-15, 22-24           |
| X   | US 2003/0186066 A (MONKIEWICZ et al), 2 October 2003<br>Whole document   | 1-24                  |
| X   | US 2002/0059974 A (KELLER et al), 23 May 2002<br>Whole document  | 1-24                  |
| X   | US 6649266 B1 (GROSS et al), 18 November 2003<br>Whole document  | 1-24                  |
| X   | Patent Abstracts of Japan<br>JP 2003-128991 A (NIPPON SODA Co Ltd), 8 May 2003<br>See Abstract & JP 2003-128991                              | 1-15, 22-24           |

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2005/000042

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in Search Report  |            |    |            | Patent Family Member |            |    |            |
|---|------------|----|------------|----------------------|------------|----|------------|
| WO  | 03066241   | AU | 2003244479 | DE                   | 10205007   | EP | 1472011    |
| WO  | 02084013   | DE | 10118348   |                      |            |    |            |
| US  | 6800354    | AU | 35752/02   | CA                   | 2429866    | DE | 10063739   |
|   |            | EP | 1347948    | US                   | 2002142150 | WO | 0249980    |
| US  | 6743467    | AU | 65497/00   | CA                   | 2383234    | EP | 1210396    |
|   |            | NZ | 517308     | WO                   | 0114497    |    |            |
| US  | 6287639    | AU | 54825/98   | AU                   | 55524/98   | AU | 55525/98   |
|   |            | BR | 9712956    | BR                   | 9713084    | CA | 2271310    |
|   |            | CN | 1236339    | DE                   | 19647368   | EP | 0938405    |
|   |            | EP | 0946313    | EP                   | 0950039    | ID | 18721      |
|   |            | PL | 333455     | US                   | 6352610    | US | 6378599    |
|   |            | WO | 9822241    | WO                   | 9822536    | WO | 9822648    |
| DE  | 10051182   |    |            |                      |            |    |            |
| JP  | 2003155411 |    |            |                      |            |    |            |
| US  | 2003186066 | DE | 10212523   | EP                   | 1347024    | JP | 2003277683 |
| US  | 2002059974 | DE | 10057319   | DE                   | 10058131   | EP | 1206976    |
|   |            | EP | 1207189    |                      |            |    |            |
| US  | 6649266    | DE | 19917366   | EP                   | 1183107    | WO | 0062942    |
| JP  | 2003128991 |    |            |                      |            |    |            |
| Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001. |            |    |            |                      |            |    |            |
| END OF ANNEX  |            |    |            |                      |            |    |            |